# SUBJECT INDEX

#### Admixtures

Evaluating Mix Designs for Cold Weather Concreting, Bruce A. Suprenant, CR Mar. 87 p49-57.

#### Aggregate

Nature of Fines Produced in Aggregate Processing. Robert M. Pintner, Ted S. Vinson and Eric G. Johnson, CR Mar. 87 p10-21.

## Airport runways

Using Soil Temperatures to Monitor Thermosyphon Performance, Terry McFadden, CR Dec. 87 p145-157.

#### Alaska

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p133-144.

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

## Arctic regions

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

#### Channel flow

Hydraulic Analysis for Ice-Covered Channel Networks, Gary C. Pasquarell and Hung Tao Shen. CR Sept. 87 p122-132.

## Cold weather construction

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p.133-144

Thawing Frozen Ground: Field Trials and Analysis, James M. Oswell and Michael D. Graham, CR June 87 p76-88.

## Concrete

Evaluating Mix Designs for Cold Weather Concreting, Bruce A. Suprenant, CR Mar. 87 p49-57.

## Construction

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p133-144.

## Crushing

Nature of Fines Produced in Aggregate Processing. Robert M. Pintner, Ted S. Vinson and Eric G. Johnson, CR Mar. 87 p10-21.

## Current

Ice Transport by Wind, Wave, and Currents, Akio Wake, Y-K. Poon and Randy Crissman, CR June 87 p89-103.

## Design

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p133-144.

## Drag

Ice Transport by Wind, Wave, and Currents, Akio Wake, Y-K. Poon and Randy Crissman, CR June 87 p89-103.

#### Fmbank mont

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

#### Excevation

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

Thawing Frozen Ground: Field Trials and Analysis, James M. Oswell and Michael D. Graham. CR June 87 p76-88.

## Federal-state cooperation

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

#### rieio testi

Thawing Frozen Ground: Field Trials and Analysis, James M. Oswell and Michael D. Graham, CR June 87 p76-88.

#### Fisheries

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

#### Floes

Ice Transport by Wind, Wave, and Currents, Akio Wake, Y-K. Poon and Randy Crissman, CR June 87 p89-103.

### Frozen soils

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

Thawing Frozen Ground: Field Trials and Analysis, James M. Oswell and Michael D. Graham. CR June 87 p76-88.

# Geotextiles

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

## Heat transfer

Local Melting of Ice Cover by Thermal Side Effluent, Semaan Sarraf and Walid Al-Saleh, CR Sept. 87 p105-121.

## Heated water discharge

Local Melting of Ice Cover by Thermal Side Effluent, Semaan Sarraf and Walid Al-Saleh, CR Sept. 87 p105-121.

## Ice cover

Hydraulic Analysis for Ice-Covered Channel Networks, Gary C. Pasquarell and Hung Tao Shen, CR Sept. 87 p122-132.

Local Melting of Ice Cover by Thermal Side Effluent, Semaan Sarraf and Walid Al-Saleh, CR Sept. 87 p105-121.

#### Ice flow

Ice Transport by Wind, Wave, and Currents, Akio Wake, Y-K. Poon and Randy Crissman, CR June 87 p89-103.

#### Information centers

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

#### Laboratory tests

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

## Mathematical models

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

#### Permafrost

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

Using Soil Temperatures to Monitor Thermosyphon Performance, Terry McFadden, CR Dec. 87 p145-157.

#### Piles

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

#### Pore ice

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

## Public health

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

## Research needs

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

### River flow

Local Melting of Ice Cover by Thermal Side Effluent, Semaan Sarraf and Walid Al-Saleh, CR Sept. 87 p105-121.

### Roads

Nature of Fines Produced in Aggregate Processing, Robert M. Pintner, Ted S. Vinson and Eric G. Johnson, CR Mar. 87 p10-21.

## Roughness coefficient

Hydraulic Analysis for Ice-Covered Channel Networks, Gary C. Pasquarell and Hung Tao Shen, CR Sept. 87 p122-132.

#### Silh

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

### Soil classification

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

## State-of-the-art reviews

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

#### Cublimation

Sublimation of Pore Ice in Frozen Silt, Scott L. Huang and Nolan B. Aughenbaugh, CR Dec. 87 p171-181.

## Technology transfer

National Needs in Arctic Research, A. L. Washburn, CR Mar. 87 p2-9.

### Temperature distribution

Local Melting of Ice Cover by Thermal Side Effluent, Semaan Sarraf and Walid Al-Saleh, CR Sept. 87 p105-121.

## Thawing

Thawing Frozen Ground: Field Trials and Analysis, James M. Oswell and Michael D. Graham, CR June 87 p76-88.

### **Thermodynamics**

Evaluating Mix Designs for Cold Weather Concreting, Bruce A. Suprenant, CR Mar. 87 p49-57.

## Thermosyphons

Using Soil Temperatures to Monitor Thermosyphon Performance, Terry McFadden, CR Dec. 87 p145-157.

### Void

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

## Wastewater treatment

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p133-144.

## Water treatment plants

Design/Construction Considerations for Subarctic Wastewater Plant, Floyd J. Damron, CR Sept. 87 p133-144.

## Wave forces

Ice Transport by Wind, Wave, and Currents, Akio Wake, Y-K. Poon and Randy Crissman, CR June 87 p89-103.

# **AUTHOR INDEX**

Al-Saleh, Walid see Sarraf, Semaan, CR Sept. 87, p105-121

Aughenbaugh, Nolan B. see Huang, Scott L., CR Dec. 87, p171-181

Baker, T. H. W. see Sayles, F. H., CR Mar. 87, p22-48

Connor, Billy see Kinney, Thomas C., CR Dec. 87, p158-170

Crissman, Randy see Wake, Akio, CR June 87, p89-103

Daneron, Floyd J.
Design/Construction Considerations for Subarctic
Wastewater Plant, CR Sept. 87, p133-144

Gallavres, F. see Sayles, F. H., CR Mar. 87, p22-48

Graham, Michael D. see Oswell, James M., CR June 87, p76-88

Heydinger, Andrew G. Piles in Permafrost, CR June 87, p59-75

Huang, Scott L.
Sublimation of Pore Ice in Frozen Silt, with Nolan
B. Aughenbaugh, CR Dec. 87, p171-181

Jessberger, H. L. see Sayles, F. H., CR Mar. 87, p22-48

Johnson, Eric G. see Pintner, Robert M., CR Mar. 87, p10-21

Kinney, Thomas C. Geosynthetics Supporting Embankments Over Voids, with Billy Connor, CR Dec. 87, p158-170

Kinosita, S. see Sayles, F. H., CR Mar. 87, p22-48

McFadden, Terry
Using Soil Temperatures to Monitor Thermosyphon Performance, CR Dec. 87, p145-157

Oswell, James M.
Thawing Frozen Ground: Field Trials and Analysis, with Michael D. Graham, CR June 87, p76-88 Pasquarell, Gary C. Hydraulic Analysis for Ice-Covered Channel Networks, with Hung Tao Shen, CR Sept. 87, p122-132

Pintner, Robert M.
Nature of Fines Produced in Aggregate Processing, with Ted S. Vinson and Eric G. Johnson, CR Mar. 87, p10-21

Poen, Y-K. see Wake, Akio, CR June 87, p89-103

Sadovskiy, A. V. see Sayles, F. H., CR Mar. 87, p22-48

Sarraf, Semaan Local Melting of Ice Cover by Thermal Side Effluent, with Walid Al-Saleh, CR Sept. 87, p105-121

Sayles, F. H.
Classification and Laboratory Testing of Artificially Frozen Ground, with T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87, p22-48

Sego, D. see Sayles, F. H., CR Mar. 87, p22-48

Shen, Hung Tao see Pasquarell, Gary C., CR Sept. 87, p122-132

Suprenant, Bruce A.
Evaluating Mix Designs for Cold Weather Concreting, CR Mar. 87, p49-57

Vinson, Ted S. see Pintner, Robert M., CR Mar. 87, p10-21

Vyalov, S. S. see Sayles, F. H., CR Mar. 87, p22-48

Wake, Akio Ice Transport by Wind, Wave, and Currents, with Y-K. Poon and Randy Crissman, CR June 87, p89-103

Washburn, A. L. National Needs in Arctic Research, CR Mar. 87, p2-9